

Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	5316	370/400,401,395.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:39
L5	193	4 and "time delay"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:40
L6	6	5 and simulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:40
L7	0	6 and "block size"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:40
L8	1	6 and "bandwidth reservation"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:46
L9	1418	"370"/\$.ccls. and "admission control"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:42
L10	305	9 and (traffic adj flow)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:42
L11	0	10 and simulation and (quotients same block adj size)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:43

L12	306	10 (quotients same block adj size)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:43
L13	70	12 and simulation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:43
L14	8	13 and (bandwidth near5 reservation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:44
L15	6	14 and (multimedia or "varying data" or "multiple data rates")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:45
L16	6	15 and source	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:45
L17	6	16 and parameters	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:45
L18	5	16 and (source near12 parameters)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:46
L19	192	12 and sequenc\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:46

L20	30	19 and "bandwidth reservation"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:47
L21	11	20 and receiver and transmitter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/12 11:53

	Type	Hits	Search Text
1	BRS	305	"370"/\$.ccls. and "bandwidth reservation"
2	BRS	521	"370"/\$.ccls. and "bandwidth reservation"
3	BRS	31	S2 and (source near5 parameter\$1)
4	BRS	8	S3 and "buffer size"

	DBs	Time Stamp	Comments	Error Definition
1	USPAT	2005/08/12 10:40		
2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/08/10 11:00		
3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/08/10 11:01		
4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2005/08/12 11:39		

INSPIC SEARCH HISTORY

No.	Database	Search term	Info added since	Results	
1	INZZ	bandwidth ADJ reservation	unrestricted	0	-
2	INZZ	bandwidth ADJ (reservation OR allodcation)	unrestricted	481	show titles
3	INZZ	2 AND adaptive SAME control	unrestricted	39	show titles
4	INZZ	3 AND (QoS OR quality ADJ of ADJ service)	unrestricted	31	show titles
5	INZZ	4 AND simulation	unrestricted	9	show titles
6	INZZ	5 AND multimedia AND communication	unrestricted	6	show titles
7	INZZ	1 AND rliable SAME connection	unrestricted	0	-
8	INZZ	1 AND TCP	unrestricted	0	-
9	INZZ	1 AND datagram AND protocol	unrestricted	0	-
10	INZZ	2 AND rliable SAME connection	unrestricted	0	-



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On call level QoS guarantees under heterogeneous user n wireless multimedia networks

[Misic, J. Tam Yik Bun](#)

Dept. of Comput. Sci., Hong Kong Univ. of Sci. & Technol., Kowloon, China;

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Abstract

Adaptive **bandwidth reservation** in wireless cellular networks is expected to ensure bound when network conditions such as new call arrival rates or users' mobilities are changing. T event based adaptive **bandwidth reservation** is that **bandwidth reservation** values are target base station to the neighboring base stations upon new call arrivals, handoffs and c paper considers the problem of maintaining bounded forced call termination probability un admission algorithm when the user mobility changes. Our analysis shows that in order to c termination probability, a **bandwidth reservation** policy must be imposed on the **bandwid** values. Several **bandwidth reservation** policies have been analysed, and the range of ca been determined under variable user mobility in all the cases. The analytical results have simulations

Index Terms

Inspec

Controlled Indexing

[adaptive control](#) [bandwidth allocation](#) [cellular radio](#) [digital simulation](#) [multime communication](#) [probability](#) [quality of service](#) [radio networks](#) [telecommunication congestion control](#) [telecommunication traffic](#)

Non-controlled Indexing

[adaptive admission algorithm](#) [adaptive admission control](#) [bandwidth reservati](#) [base station](#) [bounded call level QoS](#) [bounded forced call termination probability](#) [arrivals](#) [call level QoS guarantees](#) [event based adaptive bandwidth reservatio](#) [calls](#) [heterogeneous user mobilities](#) [new call arrival rates](#) [simulations](#) [traffic in wireless cellular networks](#) [wireless multimedia networks](#)

Author Keywords

Not Available

References

No references available on IEEE Xplore.

Citing Documents

No citing documents available on IEEE Xplore.

1. **Dynamic threshold-based call admission framework for prioritized multimedia traffic in wireless cellular networks**
Nasser, N.; Hassanein, H.;
Global Telecommunications Conference, 2004. GLOBECOM '04. IEEE
Volume 2, 29 Nov.-3 Dec. 2004 Page(s):644 - 649 Vol.2
Digital Object Identifier 10.1109/GLOCOM.2004.1378041
[AbstractPlus](#) | Full Text: [PDF](#)(636 KB) IEEE CNF
- ☐ 2. **A survey of quality of service in IEEE 802.11 networks**
Hua Zhu; Ming Li; Chlamtac, I.; Prabhakaran, B.;
Wireless Communications, IEEE [see also IEEE Personal Communications]
Volume 11, Issue 4, Aug. 2004 Page(s):6 - 14
Digital Object Identifier 10.1109/MWC.2004.1325887
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(274 KB) IEEE JNL
- ☐ 3. **On-demand SIR and bandwidth-guaranteed routing with transmit power assignment in ad hoc mobile networks**
Dongwoo Kim; Chan-Ho Min; Sehun Kim;
Vehicular Technology, IEEE Transactions on
Volume 53, Issue 4, July 2004 Page(s):1215 - 1223
Digital Object Identifier 10.1109/TVT.2004.830140
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(384 KB) IEEE JNL
- ☒ 4. **A dynamic multiple-threshold bandwidth reservation (DMTBR) scheme for QoS provisioning in multimedia wireless networks**
Xiang Chen; Bin Li; Yuguang Fang;
Wireless Communications, IEEE Transactions on
Volume 4, Issue 2, March 2005 Page(s):583 - 592
Digital Object Identifier 10.1109/TWC.2004.843053
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(528 KB) IEEE JNL
- ☒ 5. **QoS routing in ad hoc wireless networks**
Chunhung Richard Lin; Jain-Shing Liu;
Selected Areas in Communications, IEEE Journal on
Volume 17, Issue 8, Aug. 1999 Page(s):1426 - 1438
Digital Object Identifier 10.1109/49.779924
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(280 KB) IEEE JNL
- ☐ 6. **Linear-complexity algorithms for QoS support in input-queued switches with no speedup**
Kam, A.C.; Kai-Yeung Siu;
Selected Areas in Communications, IEEE Journal on
Volume 17, Issue 6, June 1999 Page(s):1040 - 1056
Digital Object Identifier 10.1109/49.772432
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(320 KB) IEEE JNL
- ☐ 7. **Distributed resource allocation for DS-CDMA-based multimedia ad hoc wireless LANs**
Sanjay Lal; Sousa, E.S.;
Selected Areas in Communications, IEEE Journal on
Volume 17, Issue 5, May 1999 Page(s):947 - 967
Digital Object Identifier 10.1109/49.768208
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(388 KB) IEEE JNL
- ☐ 8. **Local and congestion-driven fairness algorithm in arbitrary topology networks**
Mayer, A.; Ofek, Y.; Yung, M.;
Networking, IEEE/ACM Transactions on
Volume 8, Issue 3, June 2000 Page(s):362 - 372
Digital Object Identifier 10.1109/90.851982
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(196 KB) IEEE JNL

- ☒ 9. **Adaptive bandwidth reservation and admission control in QoS-sensitive cellular networks**
Sunghyun Choi; Shin, K.G.;
Parallel and Distributed Systems, IEEE Transactions on
Volume 13, Issue 9, Sept. 2002 Page(s):882 - 897
Digital Object Identifier 10.1109/TPDS.2002.1036063
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(496 KB) IEEE JNL
- ☐ 10. **Dynamic-Grouping bandwidth reservation scheme for multimedia wireless networks**
Jau-Yang Chang; Hsing-Lung Chen;
Selected Areas in Communications, IEEE Journal on
Volume 21, Issue 10, Dec. 2003 Page(s):1566 - 1574
Digital Object Identifier 10.1109/JSAC.2003.814863
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(527 KB) IEEE JNL
- ☐ 11. **Realistic cell-oriented adaptive admission control for QoS support in wireless multimedia networks**
Jae Young Lee; Jin-Ghoo Choi; Kihong Park; Saewoong Bahk;
Vehicular Technology, IEEE Transactions on
Volume 52, Issue 3, May 2003 Page(s):512 - 524
Digital Object Identifier 10.1109/TVT.2003.810975
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(712 KB) IEEE JNL
- ☒ 12. **A fair resource allocation protocol for multimedia wireless networks**
Malla, A.; El-Kadi, M.; Olariu, S.; Todorova, P.;
Parallel and Distributed Systems, IEEE Transactions on
Volume 14, Issue 1, Jan. 2003 Page(s):63 - 71
Digital Object Identifier 10.1109/TPDS.2003.1167371
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(495 KB) IEEE JNL
- ☐ 13. **Quality-of-service mechanisms in all-IP wireless access networks**
Bongkyo Moon; Aghvami, A.H.;
Selected Areas in Communications, IEEE Journal on
Volume 22, Issue 5, June 2004 Page(s):873 - 888
Digital Object Identifier 10.1109/JSAC.2004.826924
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(576 KB) IEEE JNL
- ☒ 14. **An integrated adaptive bandwidth-management framework for QoS-sensitive multimedia cellular networks**
Sungwook Kim; Varshney, P.K.;
Vehicular Technology, IEEE Transactions on
Volume 53, Issue 3, May 2004 Page(s):835 - 846
Digital Object Identifier 10.1109/TVT.2004.825704
[AbstractPlus](#) | Full Text: [PDF](#)(472 KB) IEEE JNL
- ☐ 15. **Call admission control for voice/data integrated cellular networks: performance analysis and comparative study**
Bin Li; Lizhong Li; Bo Li; Sivalingam, K.M.; Xi-Ren Cao;
Selected Areas in Communications, IEEE Journal on
Volume 22, Issue 4, May 2004 Page(s):706 - 718
Digital Object Identifier 10.1109/JSAC.2004.825987
[AbstractPlus](#) | Full Text: [PDF](#)(464 KB) IEEE JNL
- ☒ 16. **Bandwidth-reservation scheme based on road information for next-generation cellular networks**
Duan-Shin Lee; Yun-Hsiang Hsueh;
Vehicular Technology, IEEE Transactions on
Volume 53, Issue 1, Jan. 2004 Page(s):243 - 252
Digital Object Identifier 10.1109/TVT.2003.819816
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(592 KB) IEEE JNL

- ☐ 17. **A monotonic-decreasing rate scheduler for variable-bit-rate video streaming**
Lai, H.; Lee, J.Y.; Lian-kuan Chen;
Circuits and Systems for Video Technology, IEEE Transactions on
Volume 15, Issue 2, Feb. 2005 Page(s):221 - 231
Digital Object Identifier 10.1109/TCSVT.2004.841687
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(552 KB\)](#) IEEE JNL
- ☐ 18. **Network QoS assurance in a multi-layer adaptive resource management scheme for mission-critical applications using the CORBA middleware framework**
Dasarathy, B.; Gadgil, S.; Vaidyanathan, R.; Parmeswaran, K.; Coan, B.; Conarty, M.; Bhanot, V.;
Real Time and Embedded Technology and Applications Symposium, 2005. RTAS 2005. 11th IEEE
7-10 March 2005 Page(s):246 - 255
Digital Object Identifier 10.1109/RTAS.2005.34
[AbstractPlus](#) | Full Text: [PDF\(184 KB\)](#) IEEE CNF
- ☐ 19. **A dynamic range resource reservation protocol for QoS support in wireless networks**
Jawhar, I.; Jie Wu;
Computer Systems and Applications, 2005. The 3rd ACS/IEEE International Conference on
2005 Page(s):65
Digital Object Identifier 10.1109/AICCSA.2005.1387059
[AbstractPlus](#) | Full Text: [PDF\(1940 KB\)](#) IEEE CNF
- ☒ 20. **QoS support for USB 2.0 periodic and sporadic device requests**
Chih-Yuan Huang; Tei-Wei Kuo; Ai-Chun Pang;
Real-Time Systems Symposium, 2004. Proceedings. 25th IEEE International
5-8 Dec. 2004 Page(s):395 - 404
Digital Object Identifier 10.1109/REAL.2004.45
[AbstractPlus](#) | Full Text: [PDF\(2368 KB\)](#) IEEE CNF
- ☐ 21. **On using buffered bandwidth to support real-time mobile video playback in cellular networks**
Kam-Yiu Lam; Joe Yuen; Edward Chan;
Multimedia Software Engineering, 2004. Proceedings. IEEE Sixth International Symposium on
13-15 Dec. 2004 Page(s):466 - 473
Digital Object Identifier 10.1109/MMSE.2004.56
[AbstractPlus](#) | Full Text: [PDF\(184 KB\)](#) IEEE CNF
- ☐ 22. **In advance activation of backup channels for real-time transmission**
Orallo, E.H.; Carbo, J.V.;
Dependable Systems and Networks, 2004 International Conference on
28 June-1 July 2004 Page(s):555 - 560
Digital Object Identifier 10.1109/DSN.2004.1311925
[AbstractPlus](#) | Full Text: [PDF\(347 KB\)](#) IEEE CNF
- ☐ 23. **Dynamic bandwidth reservation in cellular networks using road topology based mobility predictions**
Wee-Seng Soh; Kim, H.S.;
INFOCOM 2004. Twenty-third Annual Joint Conference of the IEEE Computer and Communications
Societies
Volume 4, 7-11 March 2004 Page(s):2766 - 2777 vol.4
Digital Object Identifier 10.1109/INFCOM.2004.1354694
[AbstractPlus](#) | Full Text: [PDF\(974 KB\)](#) IEEE CNF
- ☒ 24. **Low latency and efficient packet scheduling for streaming applications**
Eirc Hsiao-Kuang Wu; Hsu-Te Lai; Meng-feng Tsai; Cheng-Fu Chou;
Communications, 2004 IEEE International Conference on
Volume 4, 20-24 June 2004 Page(s):1963 - 1967 Vol.4
Digital Object Identifier 10.1109/ICC.2004.1312864

[AbstractPlus](#) | Full Text: [PDF](#)(280 KB) IEEE CNF



25. Supporting QoS with location aware prereservation in mobile ad hoc networks

Xiang Chen; Wei Liu; Yuguang Fang; Yang, M.C.;
Communications, 2004 IEEE International Conference on
Volume 6, 20-24 June 2004 Page(s):3476 - 3480 Vol.6
Digital Object Identifier 10.1109/ICC.2004.1313190

[AbstractPlus](#) | Full Text: [PDF](#)(391 KB) IEEE CNF